

SYSTEM **P**LANNING & **A**NALYSIS **R**eport

S-104

T.H. 7

TEXAS AVENUE TO WOODDALE AVENUE
IN ST. LOUIS PARK

S.P. 2706

JUNE, 1972

PREPARED BY
OFFICE OF SYSTEM PLANNING



**MINNESOTA
DEPARTMENT
OF HIGHWAYS**

DEPARTMENT HIGHWAY - Statewide Planning -
Room 807 - Extension 3134

Office Memorandum

TO : Paul G. Velz
Road Design Engineer

DATE: July 5, 1972

FROM : Morris Gildemeister, Chief
Statewide Planning Section

SUBJECT: T.H. 7
Texas Avenue to Wooddale Avenue
in St. Louis Park
S.P. 2706
System Planning & Analysis Report S-104

This report answers D. W. Brown's February 16, 1972 request for 1975 ADT, DHV, and HCA DT for the project location on the Page 2 map. The segment numbers on the Pages 4-6 and 8-10 correspond to those on the maps of Pages 3 and 7. Data on Pages 4-6 and 8-10 include:

- Total ADT.
- Vehicle Type Distribution
- Total HCA DT

Segment 6 of Alternate 1 having 25,200 ADT volume has the highest 1975 ADT. The 1970 ADT for this segment is 12,500.

The basic data, method, and assumptions are presented on Page 11.

Morris Gildemeister

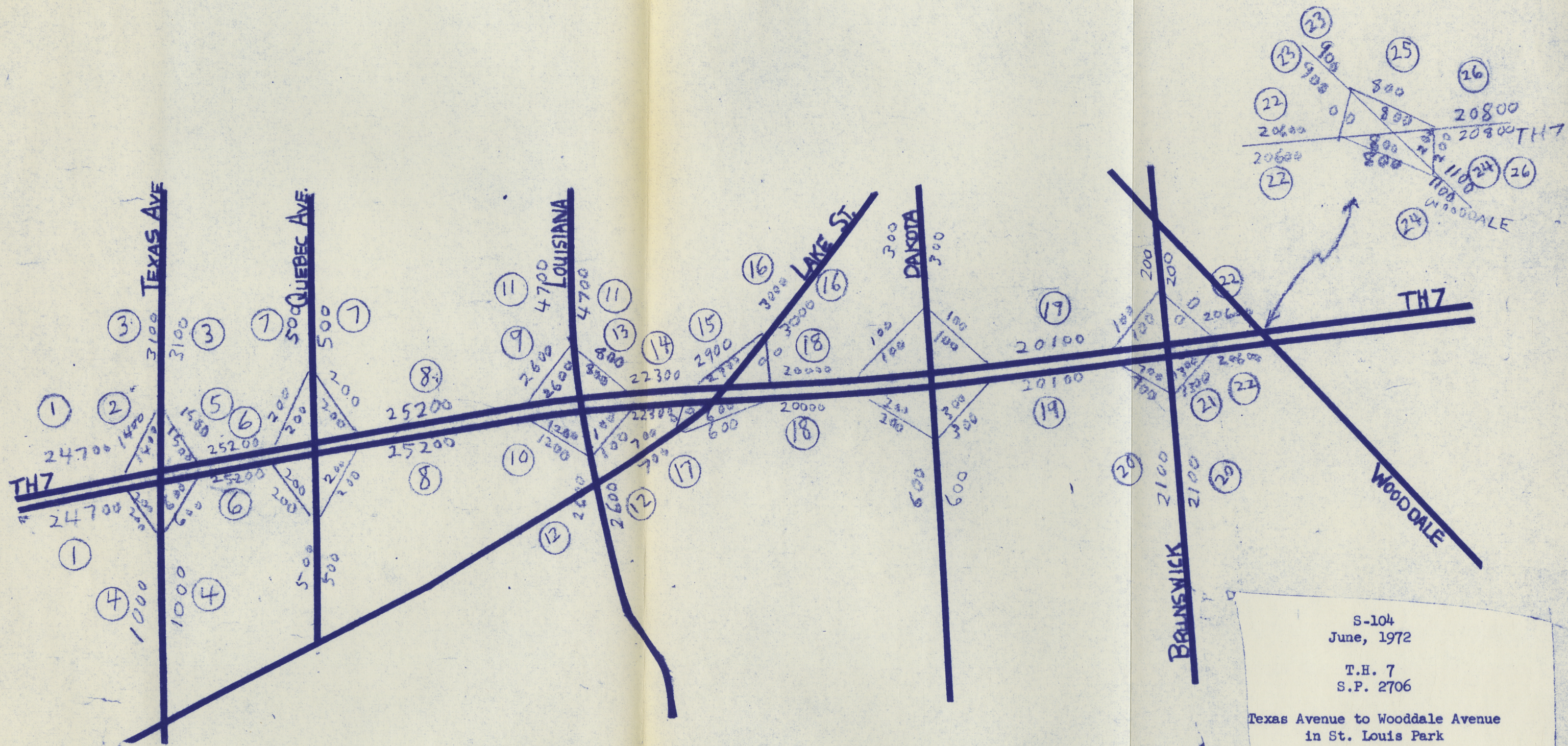
Morris Gildemeister, Chief
Statewide Planning Section

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STATE OF MINNESOTA
DEPARTMENT OF HIGHWAYS
WORK MAP

Project Location
S.P. 2706





S-104
June, 1972

T.H. 7
S.P. 2706

Texas Avenue to Wooddale Avenue
in St. Louis Park

Alternate 1

Legend
Segment Number ①
1975 ADT. 24700

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1975 PART 1 OF 3

FOR

T.H. 7 S.P. 2706 LENGTH ---- MILES
 COUNTY Hennepin LOCATION Texas Avenue to Wooddale Avenue
in St. Louis Park

BASED ON

1975 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 1 THROUGH 11 AS

DEFINED ON ATTACHED INDEX MAP on Page 3 of Alternate 1.

VEHICLE # TYPE	SEGMENT NUMBER										
	1	2	3	4	5	6	7	8	9	10	11
0	23306	1322	2922	940	1417	23780	460	23780	2450	1127	4410
1	636	37	85	29	40	650	25	650	73	36	151
2	138	5	12	4	6	140	3	140	10	7	17
3	60	7	15	5	7	62	2	62	10	3	16
4	97	10	24	8	11	101	-	101	16	4	23
5	247	8	18	6	8	249	5	249	16	12	29
6	216	11	24	8	11	218	5	218	25	11	54
TOTAL ADT	24700	1400	3100	1000	1500	25200	500	25200	2600	1200	4700
TOTAL H. COMM. ADT	1394	78	178	60	83	1420	40	1420	150	73	290
TOTAL DHV											
DIRECTIONAL DISTRIBUTION											

* VEHICLE TYPE CODE

0 = PASSENGER CARS AND 4 TIRE TRUCKS
 1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS
 2 = SINGLE UNIT-3 AXLE TRUCKS
 3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES
 4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES
 5 = TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES
 6 = BUSES AND TRUCKS WITH TRAILERS

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1975 PART 2 OF 3

FOR

T.H. 7 S.P. 2706 LENGTH ----- MILES
 COUNTY Hennepin LOCATION Texas Avenue to Wooddale Avenue
in St. Louis Park

BASED ON

1975 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 12 THROUGH 22 AS

DEFINED ON ATTACHED INDEX MAP on Page 3 of Alternate 1.

VEHICLE # TYPE	SEGMENT NUMBER										
	12	13	14	15	16	17	18	19	20	21	22
0	2445	734	21029	2709	2801	648	18876	18968	1927	1193	19427
1	80	39	585	95	100	23	508	513	102	63	537
2	11	4	128	9	10	1	119	120	10	6	121
3	6	3	52	7	7	6	51	51	8	5	54
4	10	1	82	3	3	5	84	84	3	2	85
5	17	9	231	27	28	6	209	210	24	15	216
6	31	10	193	50	51	11	153	154	26	16	160
TOTAL ADT	2600	800	22300	2900	3000	700	20000	20100	2100	1300	20600
TOTAL H. COMM. ADT	155	66	1271	191	199	52	1124	1132	173	107	1173
TOTAL DHV											
DIRECTIONAL DISTRIBUTION											

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TRAFFIC ESTIMATE DATA

DESIGN YEAR 1975 PART 3 OF 3

FOR

T.H. 7 S.P. 2706 LENGTH ---- MILES
COUNTY Hennepin LOCATION Texas Avenue to Wooddale Avenue
in St. Louis Park

BASED ON

1975 ADT FROM TRAFFIC ANALYSIS UNIT

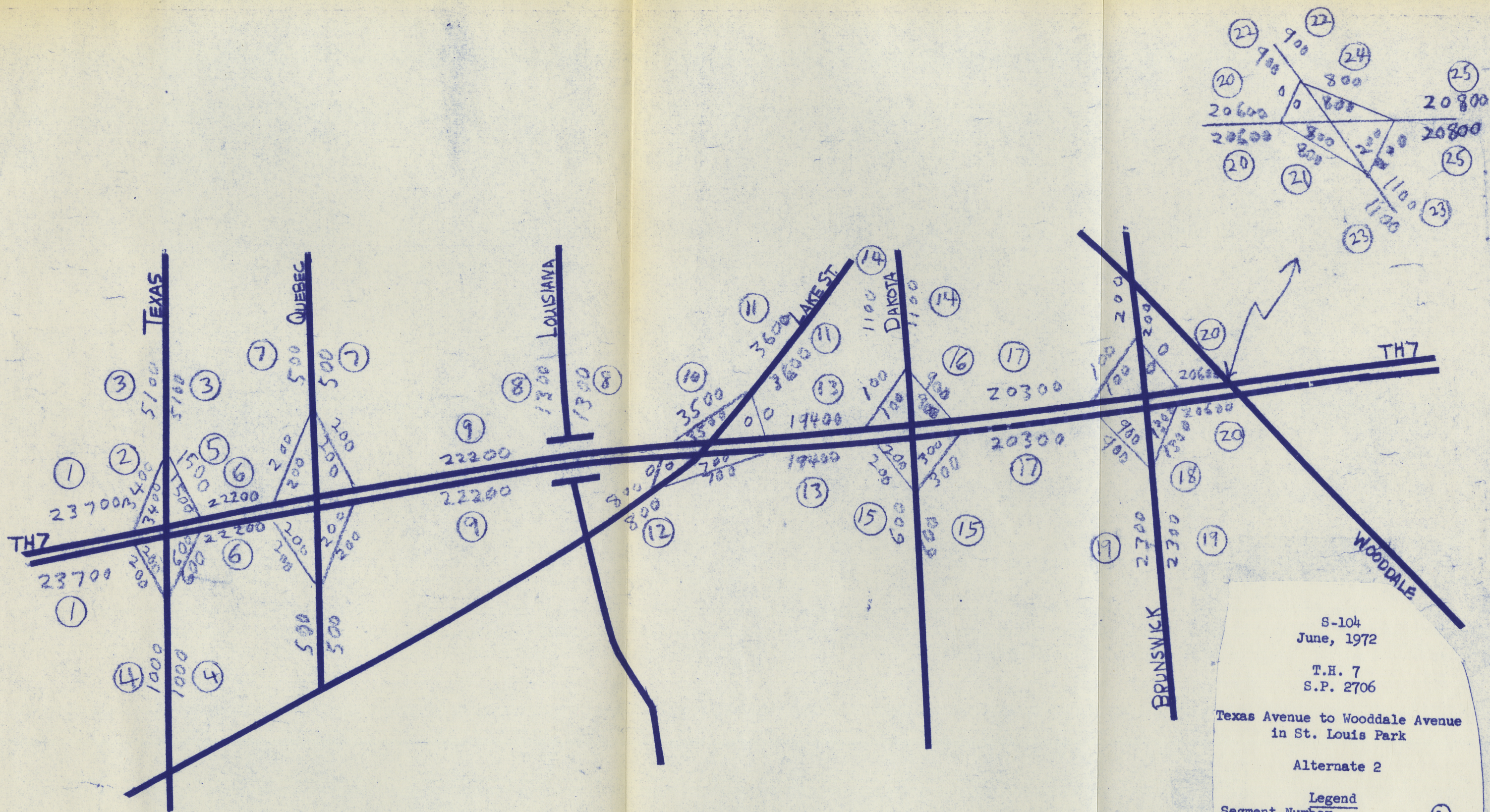
SHOWING

TOTAL ADT ON SEGMENTS 23 THROUGH 26 AS
DEFINED ON ATTACHED INDEX MAP on Page 3 of Alternate 1.

VEHICLE * TYPE	SEGMENT NUMBER									
	23	24	25	26						
0	832	1016	734	19629						
1	33	43	39	543						
2	3	4	4	122						
3	6	7	3	51						
4	5	5	1	81						
5	8	10	9	217						
6	13	15	10	157						
TOTAL ADT	900	1100	800	20800						
TOTAL H. COMM. ADT	68	84	66	1171						
TOTAL DHV										
DIRECTIONAL DISTRIBUTION										

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- 0 = PASSENGER CARS AND 4 TIRE TRUCKS
1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS
2 = SINGLE UNIT-3 AXLE TRUCKS
3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES
- 4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES
5 = TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES
6 = BUSES AND TRUCKS WITH TRAILERS



S-104
June, 1972
T.H. 7
S.P. 2706
Texas Avenue to Wooddale Avenue
in St. Louis Park
Alternate 2
Legend
Segment Number. ①
1975 ADT. 23700

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1975 PART 1 OF 3

FOR

T.H. 7 S.P. 2706 LENGTH ----- MILESCOUNTY Hennepin LOCATION Texas Avenue to Wooddale Avenuein St. Louis Park

BASED ON

1975 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 1 THROUGH 11 AS

DEFINED ON ATTACHED INDEX MAP on Page 7 of Alternate 2.

VEHICLE * TYPE	SEGMENT NUMBER										
	1	2	3	4	5	6	7	8	9	10	11
0	22363	3210	4810	940	1417	20949	460	1226	20949	3271	3363
1	610	91	139	29	40	570	25	39	570	114	119
2	132	13	20	4	6	126	3	3	126	11	12
3	58	16	24	5	7	51	2	3	51	8	8
4	93	25	39	8	11	82	-	6	82	4	4
5	237	19	29	6	8	228	5	4	228	32	33
6	207	26	39	8	11	194	5	19	194	60	61
TOTAL ADT	23700	3400	5100	1000	1500	22200	500	1300	22200	3500	3600
TOTAL H. COMM. ADT	1337	190	290	60	83	1251	40	74	1251	229	237
TOTAL DHV											
DIRECTIONAL DISTRIBUTION											

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 2 = SINGLE UNIT-3 AXLE TRUCKS
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 6 = BUSES AND TRUCKS WITH TRAILERS

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1975 PART 2 OF 3

FOR

T.H. 7 S.P. 2706 LENGTH ----- MILESCOUNTY Hennepin LOCATION Texas Avenue to Wooddale Avenuein St. Louis Park

BASED ON

1975 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 12 THROUGH 22 AS

DEFINED ON ATTACHED INDEX MAP on Page 7 of Alternate 2.

VEHICLE * TYPE	SEGMENT NUMBER										
	12	13	14	15	16	17	18	19	20	21	22
0	740	18326	1010	552	826	19152	1193	2111	19427	734	832
1	28	479	54	30	44	523	63	112	537	39	33
2	2	116	7	4	5	121	6	11	121	4	3
3	6	49	3	2	3	52	5	9	54	3	6
4	5	83	1	-	1	84	2	3	85	1	5
5	7	202	12	6	10	212	15	26	216	9	8
6	12	145	13	6	11	156	16	28	160	10	13
TOTAL ADT	800	19400	1100	600	900	20300	1300	2300	20600	800	900
TOTAL H. COMM. ADT	60	1074	90	48	74	1148	107	189	1173	66	68
TOTAL DHV											
DIRECTIONAL DISTRIBUTION											

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TRAFFIC ESTIMATE DATA

DESIGN YEAR 1975 PART 3 OF 3

FOR

T.H. 7 S.P. 2706 LENGTH ----- MILES

COUNTY Hennepin LOCATION Texas Avenue to Wooddale Avenue

in St. Louis Park

BASED ON

1975 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 23 THROUGH 25 AS

DEFINED ON ATTACHED INDEX MAP on page 7 of Alternate 2

VEHICLE * TYPE	SEGMENT NUMBER										
	23	24	25								
0	1016	734	19629								
1	43	39	543								
2	4	4	122								
3	7	3	51								
4	5	1	81								
5	10	9	217								
6	15	10	157								
TOTAL ADT	1100	800	20800								
TOTAL H. COMM. ADT	84	66	1171								
TOTAL DHV											
DIRECTIONAL DISTRIBUTION											

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5 = TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES
6 = BUSES AND TRUCKS WITH TRAILERS

Basic Data, Method, and Assumptions

The 1975 ADT and Peak Hour Volumes are presented in SPAR M-96. On T.H. 7, Louisiana Avenue is shown with access to T.H. 7. It is also shown without access, but bridged.

Total heavy commercial ADT is based on System 14 computer study since no System 16 study was made for heavy truck ADT.

Vehicle type traffic is based on vehicle classification counts made in the study area.